

FILE NO. A34368-PCT-USA 070180.0143  
PATENTIN THE CLAIMS

Please **amend** claim 1 with the following rewritten claim:

1. (THRICE AMENDED) A process for cell traced based testing of biological cells, in which the cells are applied to a substrate, which is at least partially structured and/or surface modified, and wherein said cells move adhesively over surface track regions of the substrate while producing cell traces derived from cell residues and cell tests are performed on the cell traces.

Please **amend** claim 42 with the following rewritten claim:

42. (TWICE AMENDED) A device for cell trace based testing of biological cells comprising a substrate having surface regions and surface track regions, wherein cells adhere more poorly on the surface regions than on surface track regions and wherein the surface track regions are arranged for the adhesion of cell traces derived from cell residues.

Please **amend** claim 48 with the following rewritten claim:

48. (TWICE AMENDED) A process for cell trace based cultivation of biological cells, in which the cells are applied to an at least partially structured and/or surface modified substrate and move adhesively over the surface of the substrate while producing cell traces derived from cell residues and a cultivation of the same or a different type of cells is performed on the cell traces.

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Please amend claim 50 with the following rewritten claim:

50. (TWICE AMENDED) A process for testing the properties of biological cells for medical, biochemical, and/or pharmacological purposes, or for biocompatible modification of the surfaces of implant materials, wherein said process utilizes cell traces derived from cell residues on substrates.

Please amend claim 51 with the following rewritten claim:

51. (TWICE AMENDED) A process for the manipulation of biological cells, in which the cells are applied to a substrate, which is at least partially structured and/or surface modified, and move adhesively over surface track regions of the substrate while producing cell traces, wherein the cell traces contain genetic materials of the cells, and the genetic materials are subjected to amplification and the amplified genetic material is subjected to a genetic analysis.